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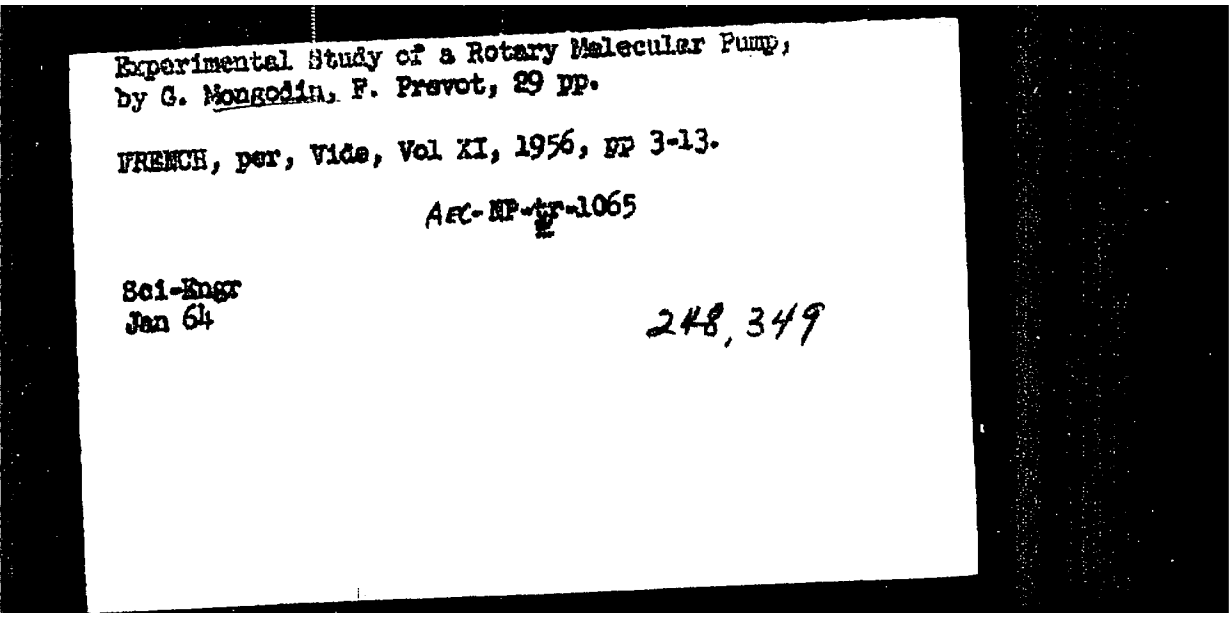

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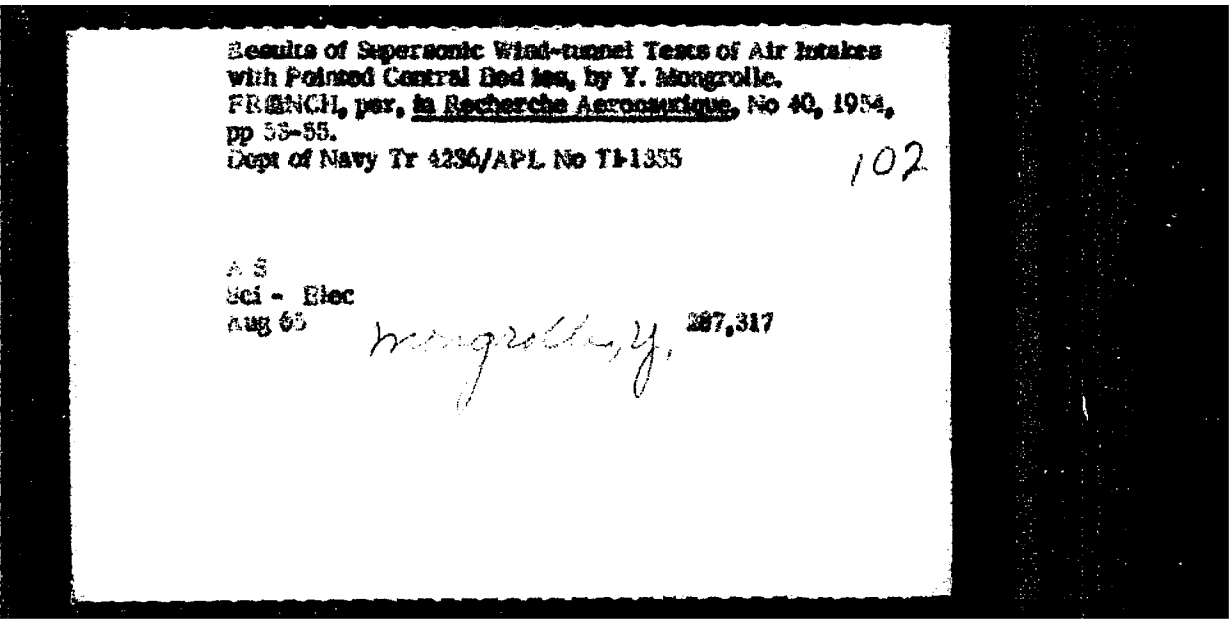

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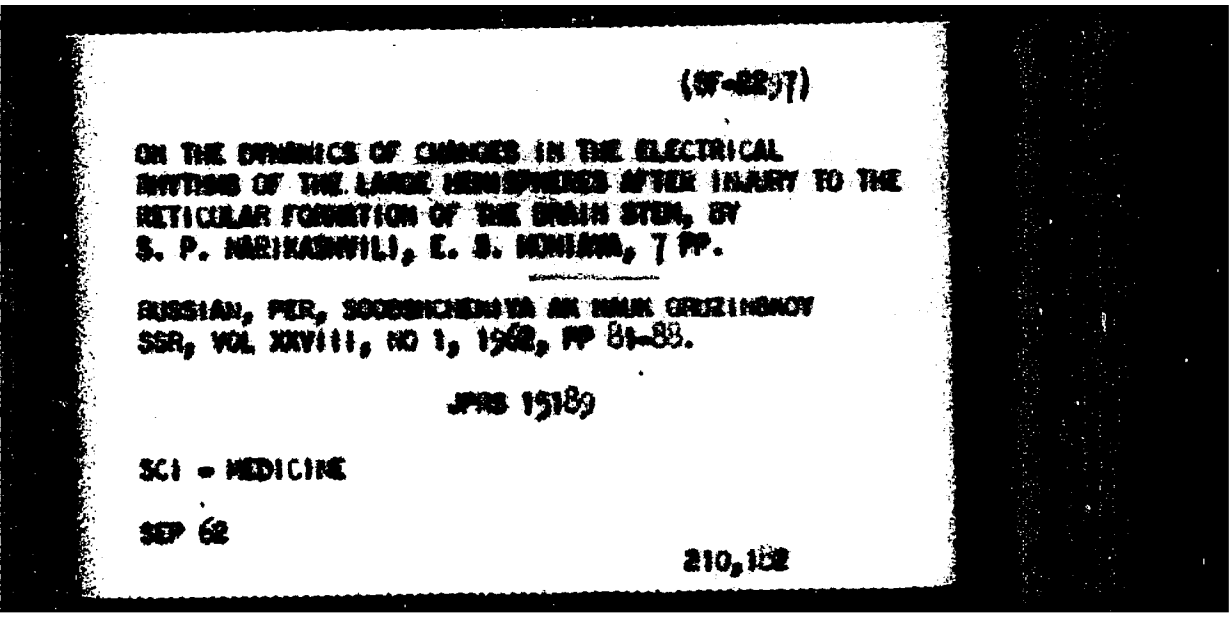

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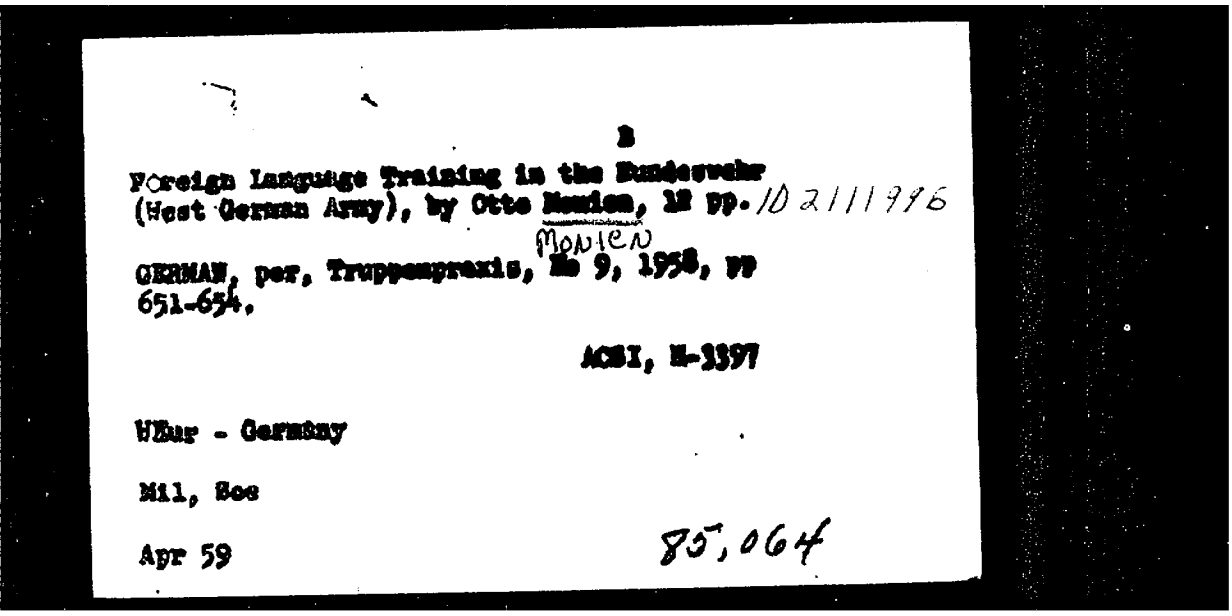

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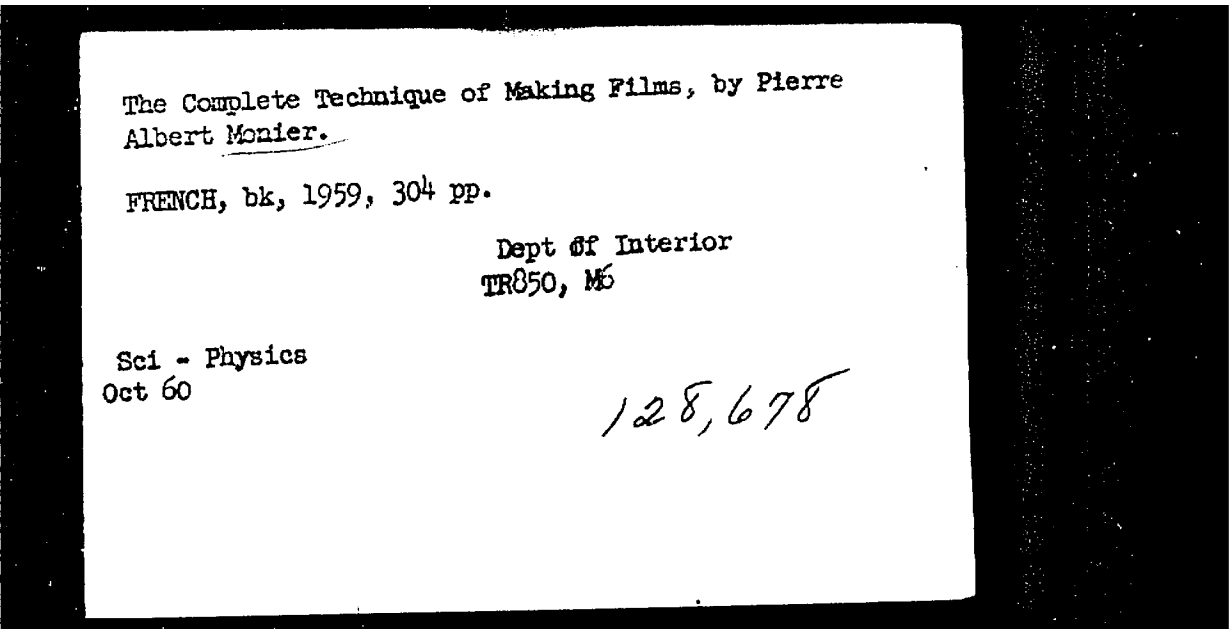

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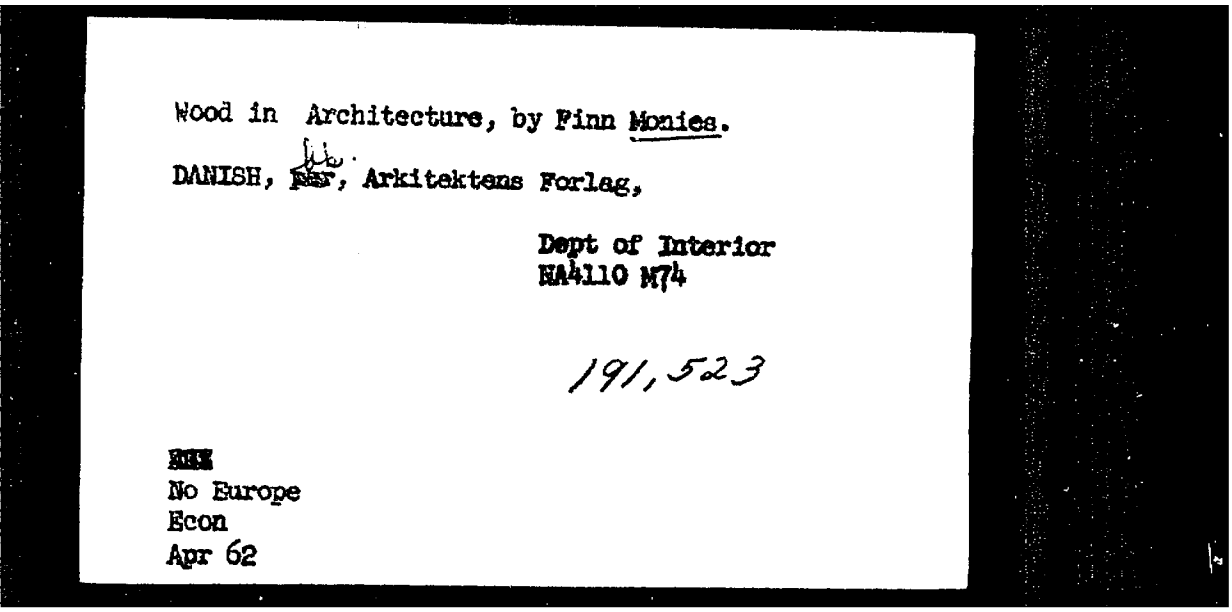

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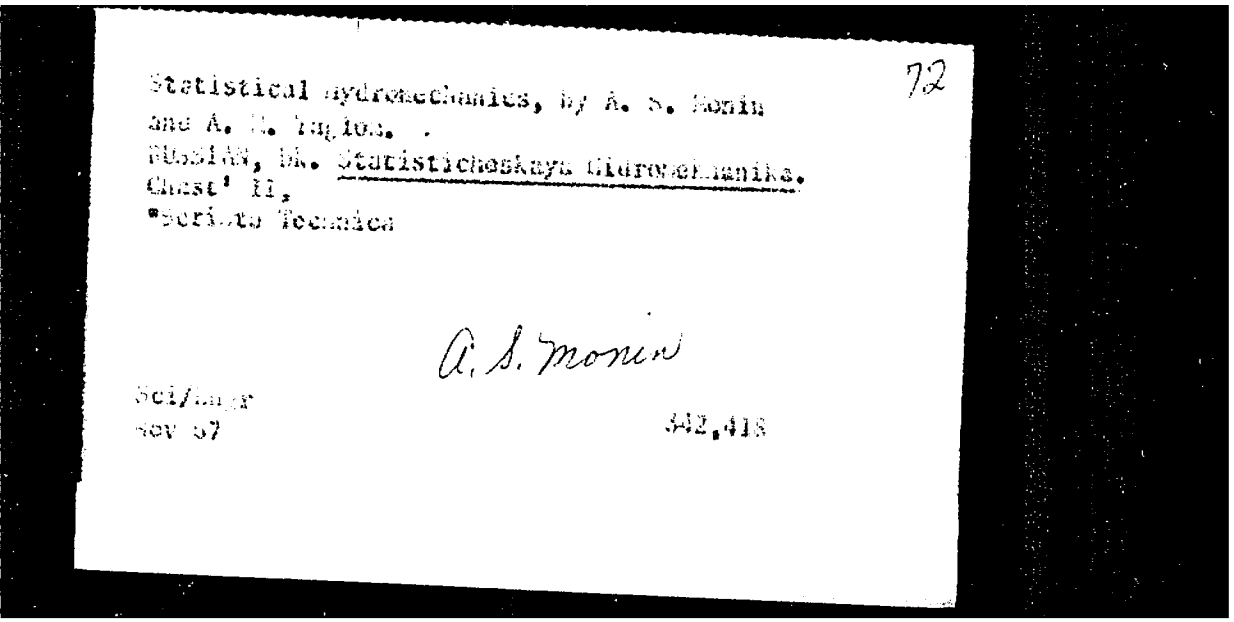

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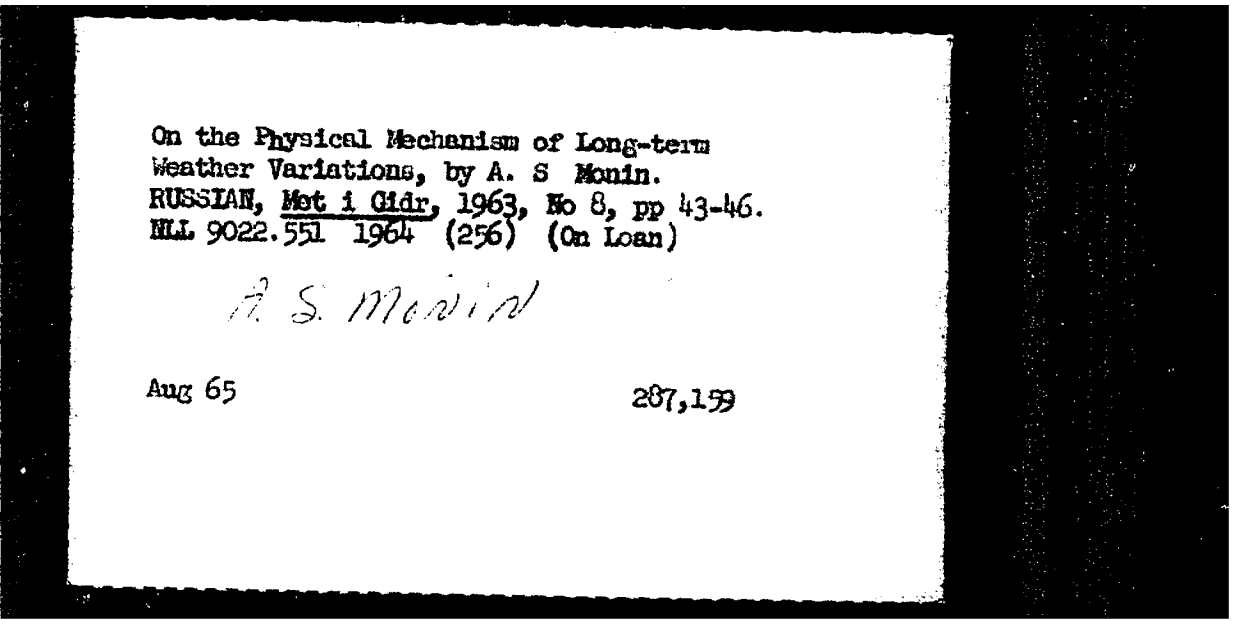

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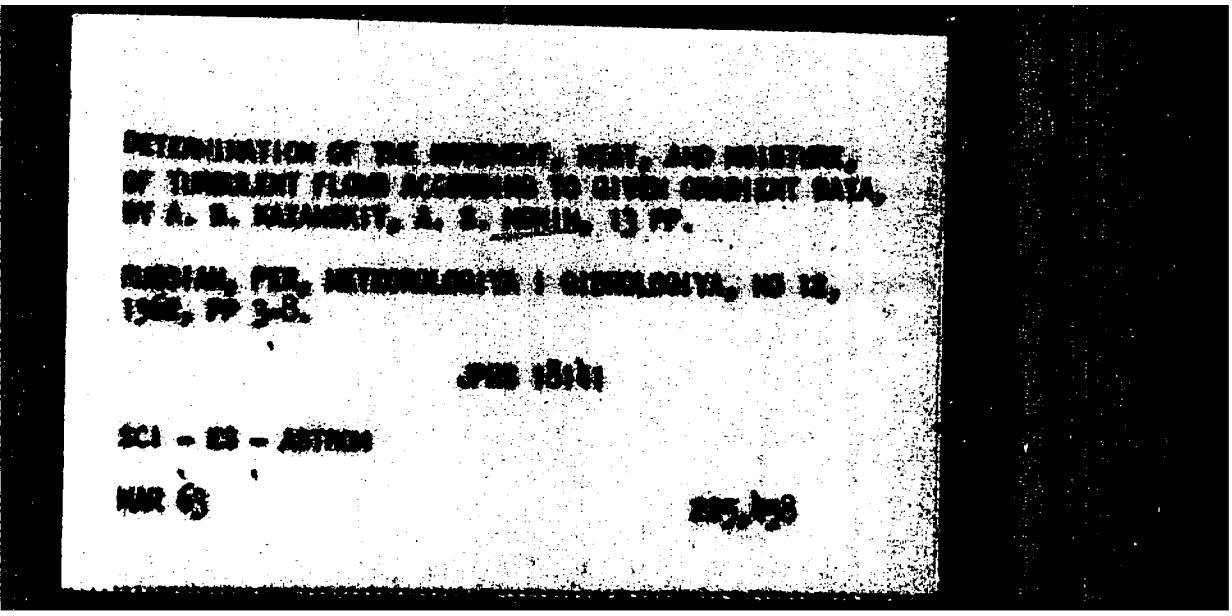

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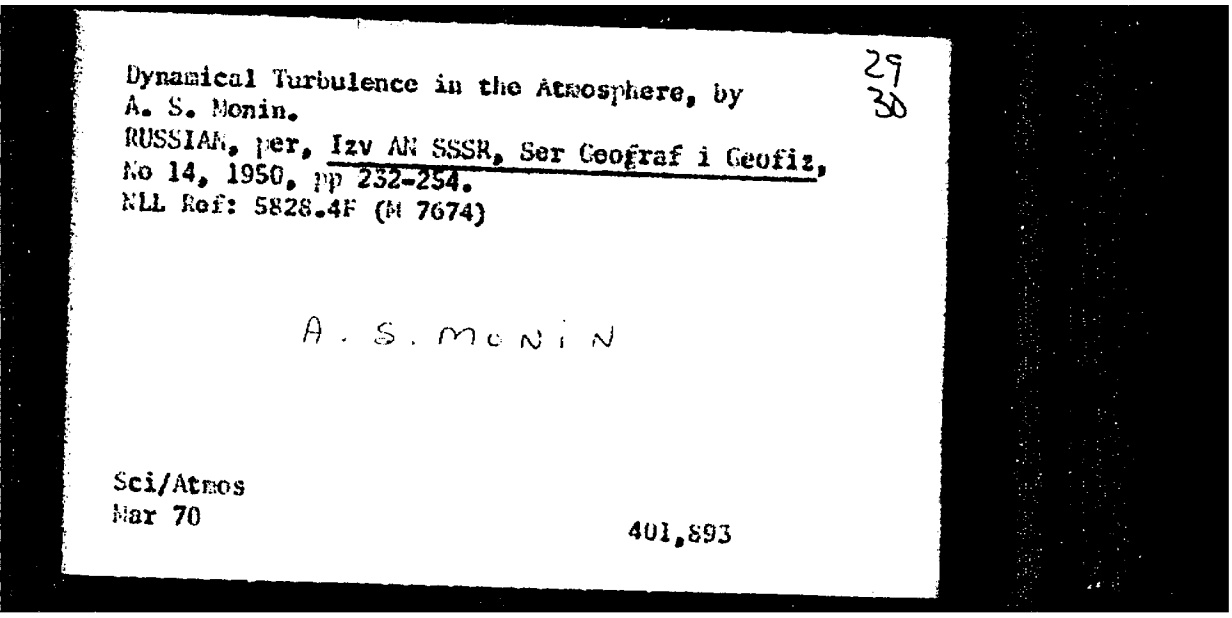

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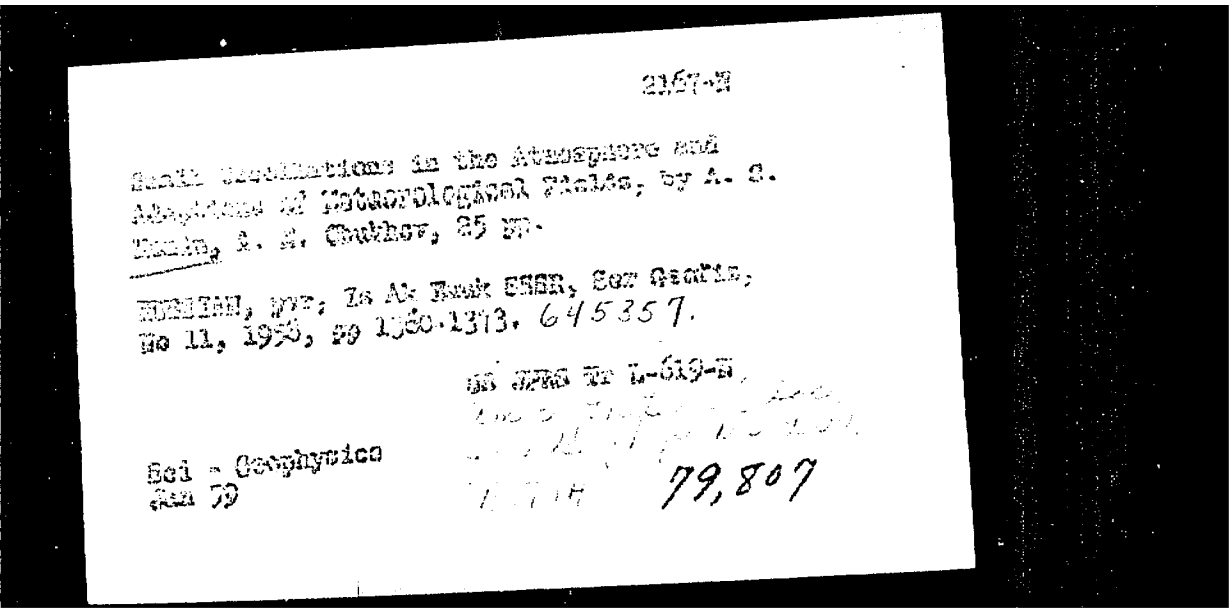

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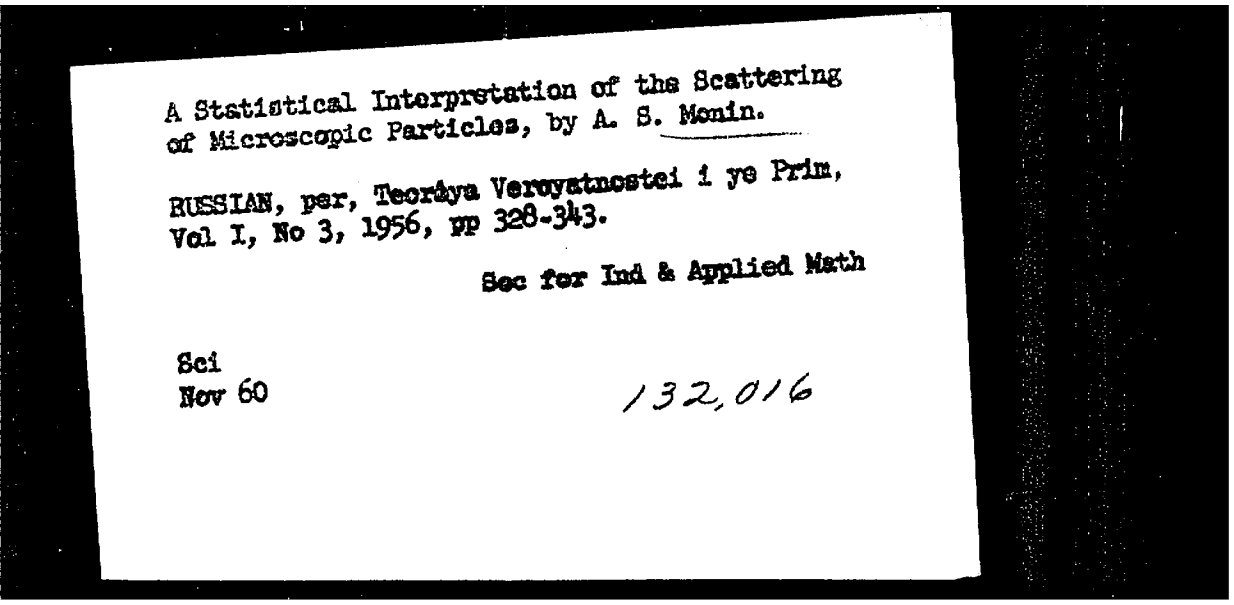

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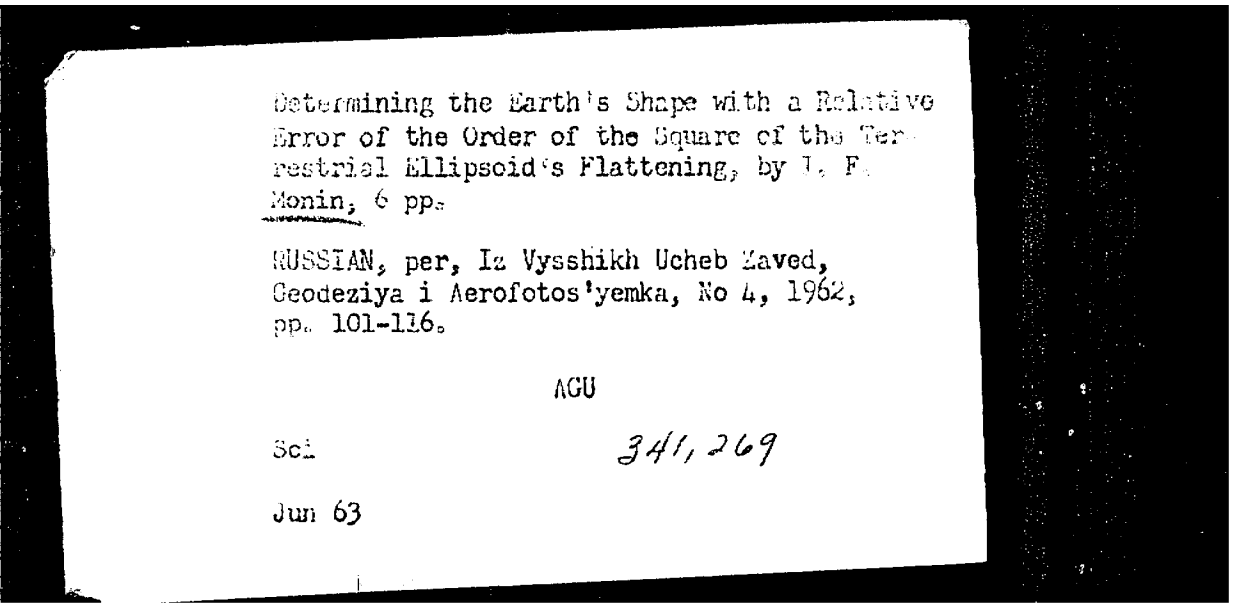

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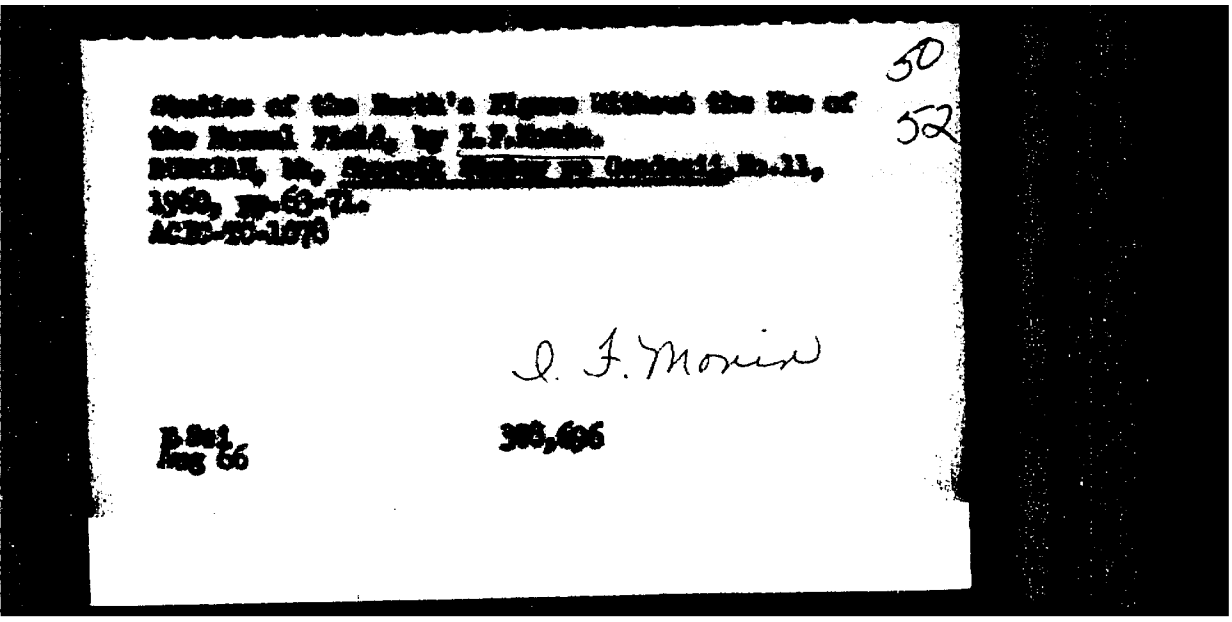

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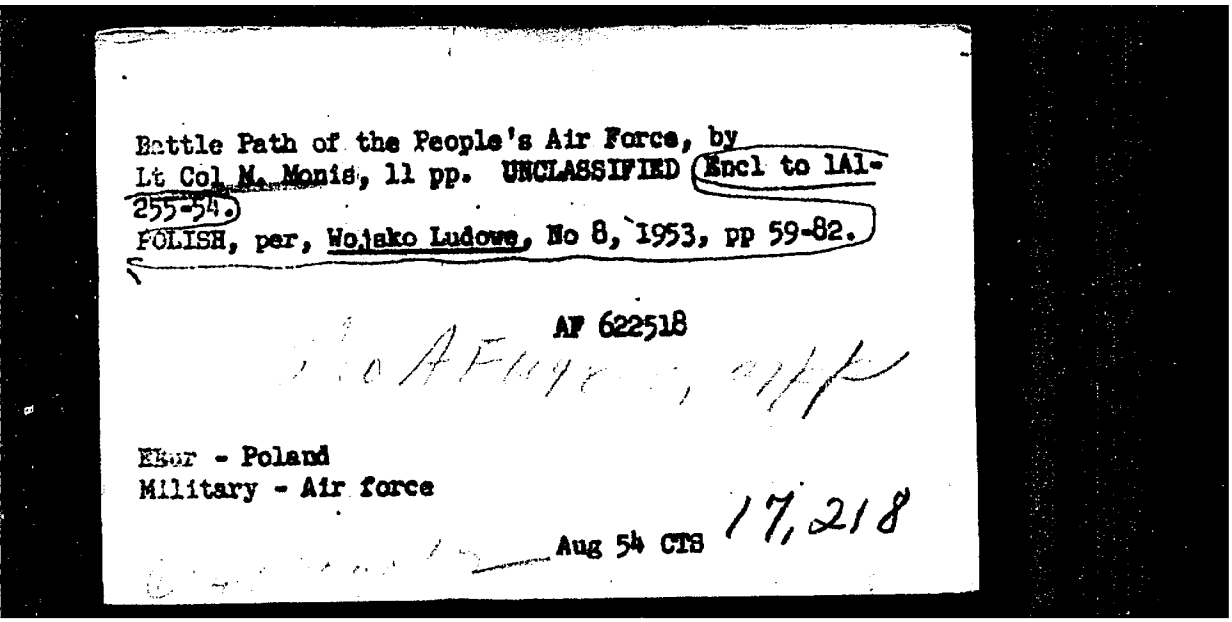

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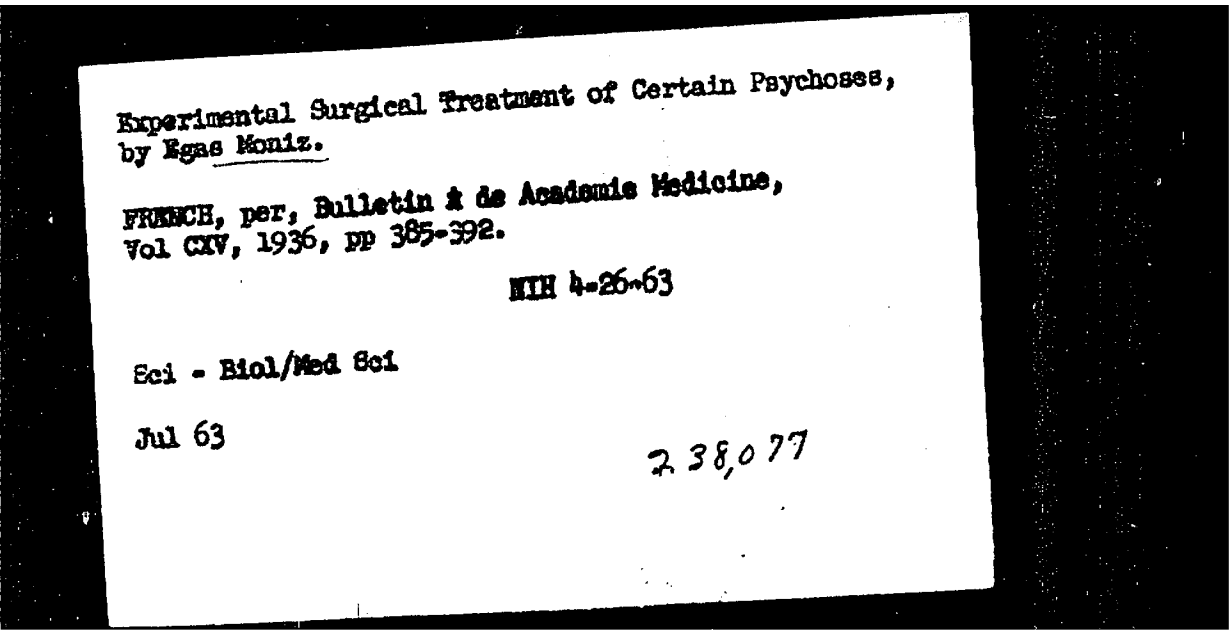

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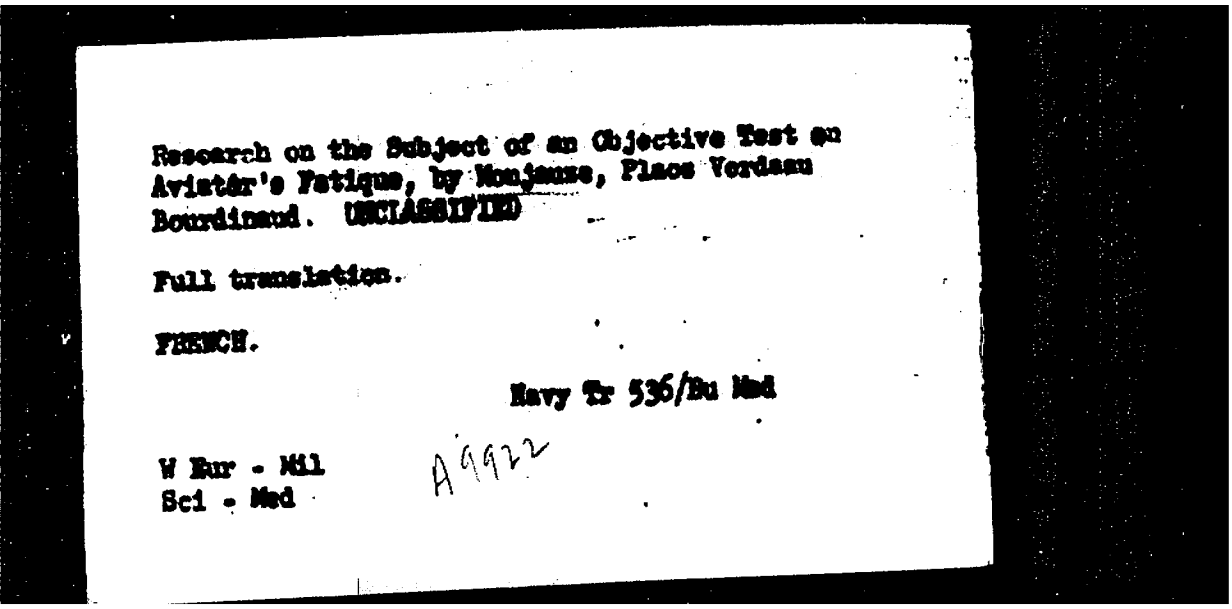

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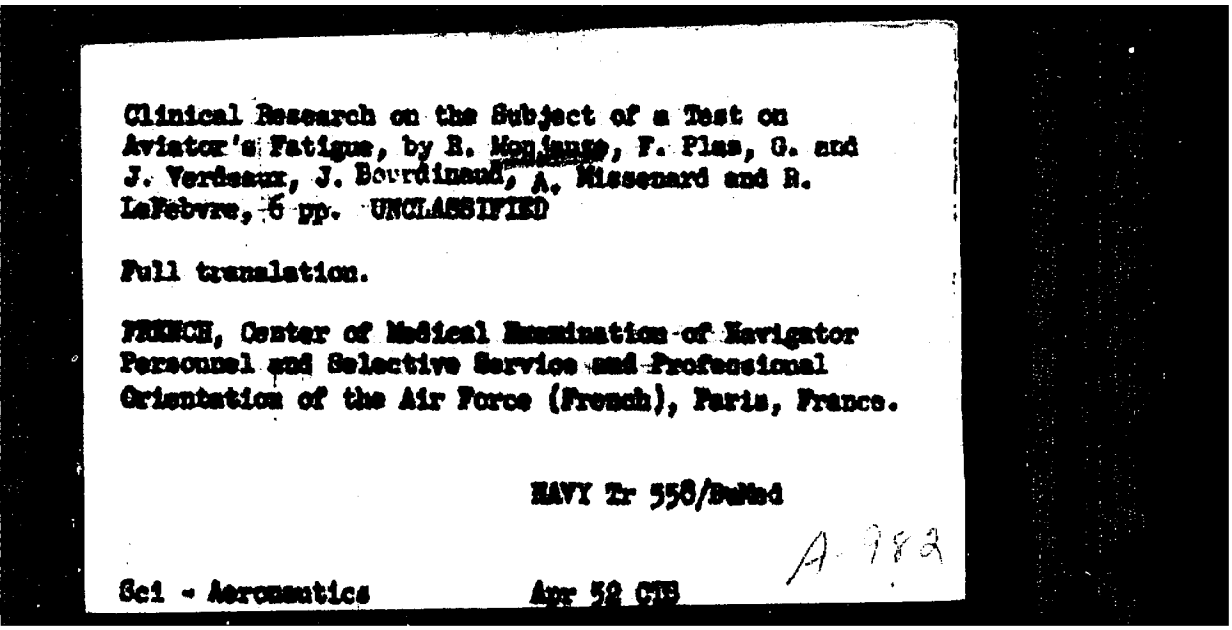

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(Biological Sciences--Physiology, TT, v. 6, no. 1)

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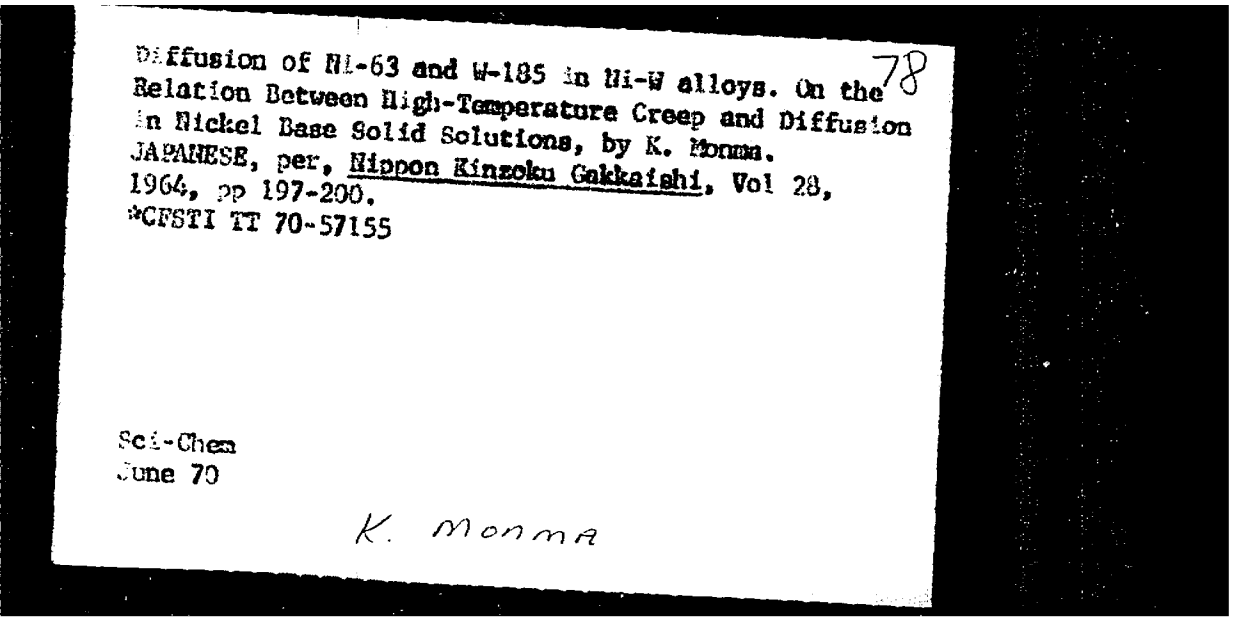

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June 70

K. Monma

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Relation Between High-Temperature Creep and Diffusion in Alloys, by K. Monma, 5pp. JAPANESE, per, Nippon Kinzoku Gakkaishi, 28, 1964, pp. 308-312.
*Nat. Bur. Stand. TT 70-57168

Sci/phys
May 70

K. Monma

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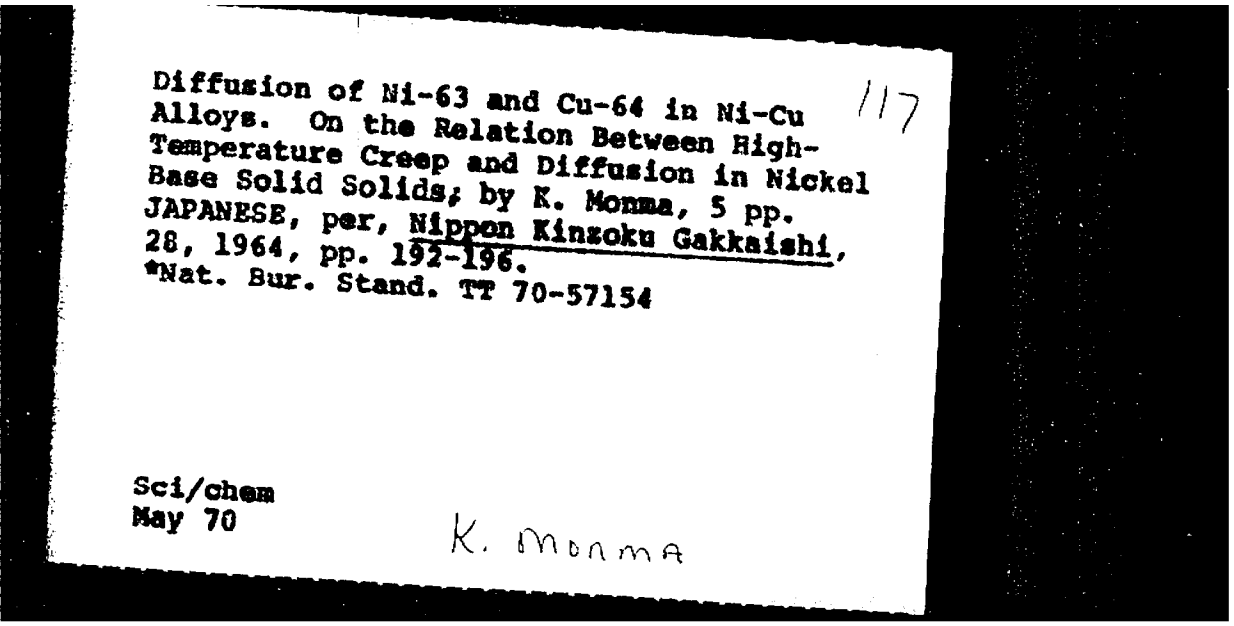

Diffusion of Ni-63 and Cu-64 in Ni-Cu Alloys. On the Relation Between High-Temperature Creep and Diffusion in Nickel Base Solid Solids; by K. Monma, 5 pp. JAPANESE, per, Nippon Kinzoku Gakkaishi, 28, 1964, pp. 192-196.
*Nat. Bur. Stand. TT 70-57154

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Sci/chem
May 70

K. Monma

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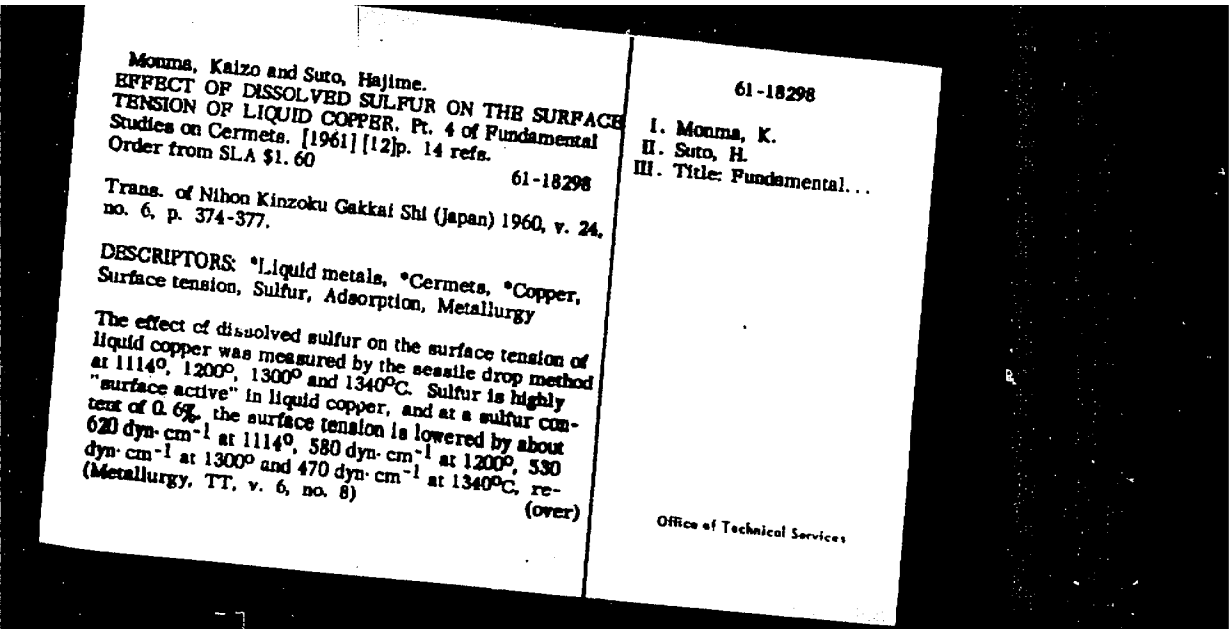

Monma, Kaizo and Suto, Hajime.
EFFECT OF DISSOLVED SULFUR ON THE SURFACE TENSION OF LIQUID COPPER. Pt. 4 of Fundamental Studies on Cermets. [1961] [12]p. 14 refs.
Order from SLA $1.60
61-18298

Trans. of Nihon Kinzoku Gakkai Shi (Japan) 1960, v. 24, no. 6, p. 374-377.

DESCRIPTORS: *Liquid metals, *Cermets, *Copper, Surface tension, Sulfur, Adsorption, Metallurgy

The effect of dissolved sulfur on the surface tension of liquid copper was measured by the sessile drop method at 1114°, 1200°, 1300° and 1340°C. Sulfur is highly "surface active" in liquid copper, and at a sulfur content of 0.6%, the surface tension is lowered by about 620 dyn·cm^{-1} at 1114°, 580 dyn·cm^{-1} at 1200°, 530 dyn·cm^{-1} at 1300° and 470 dyn·cm^{-1} at 1340°C. re-
(Metallurgy, TT, v. 6, no. 8)
(over)

61-18298

I. Monma, K.
II. Suto, H.
III. Title: Fundamental...

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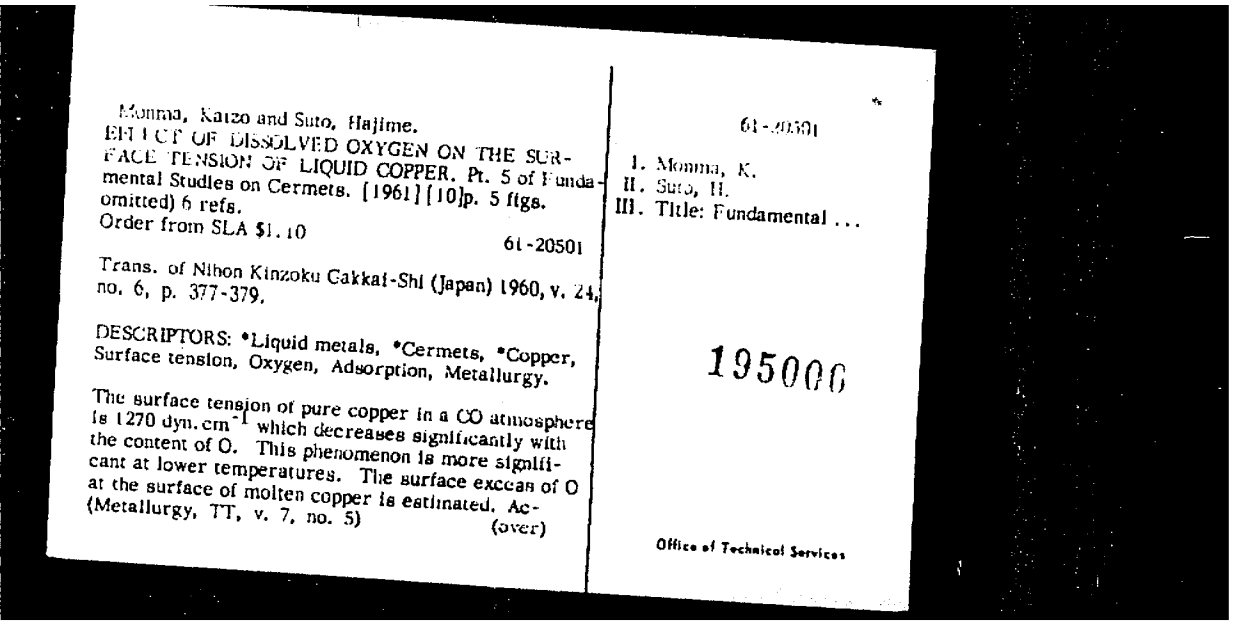

Momma, Katzo and Suto, Hajime.
EFFECT OF DISSOLVED OXYGEN ON THE SURFACE TENSION OF LIQUID COPPER. Pt. 5 of Fundamental Studies on Cermets. [1961] [10]p. 5 figs. omitted) 6 refs.
Order from SLA $1.10

61-20501

Trans. of Nihon Kinzoku Gakkai-Shi (Japan) 1960, v. 24, no. 6, p. 377-379.

DESCRIPTORS: *Liquid metals, *Cermets, *Copper, Surface tension, Oxygen, Adsorption, Metallurgy.

The surface tension of pure copper in a CO atmosphere is 1270 dyn. cm^{-1} which decreases significantly with the content of O. This phenomenon is more significant at lower temperatures. The surface excess of O at the surface of molten copper is estimated. Ac-
(Metallurgy, TT, v. 7, no. 5) (over)

61-20501

I. Momma, K.
II. Suto, H.
III. Title: Fundamental ...

195006

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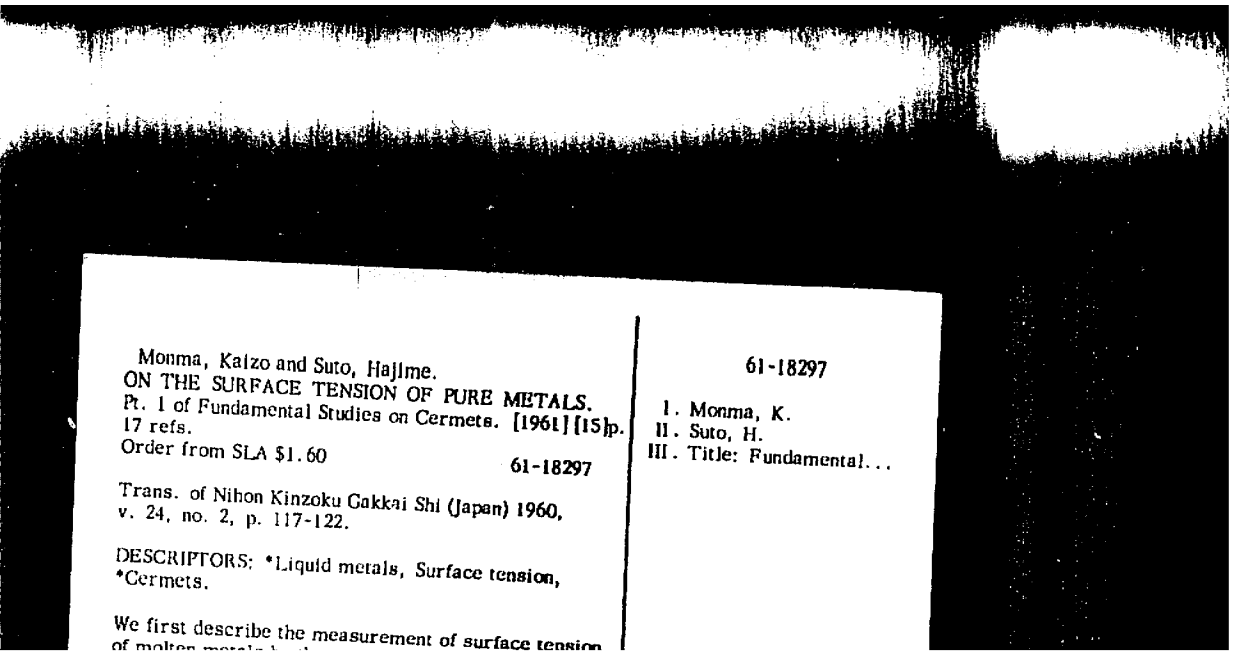

Monma, Kaizo and Suto, Hajime.
ON THE SURFACE TENSION OF PURE METALS.
Pt. 1 of Fundamental Studies on Cermets. [1961] [15]p.
17 refs.
Order from SLA $1.60 61-18297

Trans. of Nihon Kinzoku Gakkai Shi (Japan) 1960,
v. 24, no. 2, p. 117-122.

DESCRIPTORS: *Liquid metals, Surface tension,
*Cermets.

We first describe the measurement of surface tension

61-18297

I. Monma, K.
II. Suto, H.
III. Title: Fundamental...

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